CEIM64C/BEIM64C — OPERATING SYSTEMS

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define system calls.

2. List any TWO functions of operating system.

3. Define Inter Process Communication.

4. Expand the term PCB.

5. What is known as Internal Fragmentation?

6. Define Virtual memory.

7. List any TWO file allocation methods.

8. Define File.

9. List any TWO simple Unix commands.

10. Define kernel.

2587

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write short notes on system programs.

Or

(b) Explain any TWO Types of operating system.

12. (a) Discuss in detail about Deadlocks.

Or

(b) Illustrate the concept of Process state transition.

13. (a) Compare and contrast paging with segmentation.

Or

(b) Explain the single allocation strategy.

14. (a) Explain the directory structure in detail.

Or

(b) Write short notes on free space management.

15. (a) Explain the shell of Unix operating system.

Or

(b) Describe the structure of Unix operating system.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the History of operating system.

17. Describe the operations on process.

18. Compare and contrast various page replacement algorithms.

19. Discuss the process of disk scheduling.

20. Explain the Unix file system in detail.